



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

PGT Industries
1070 Technology Drive
North Venice, FL 34275

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "2LT HR-2710M" PVC Horizontal Rolling Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. 08-00882, titled "2LT HR2710M PVC Horizontal Roller Window - LMI - 74¹/₄" x 63¹/₄", sheets 1 through 6 of 6, dated 10/27/09, with revision D dated 05/20/15, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Section Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

REVISION of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises and renews NOA No. 11-1114.10 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



Manuel Perez
7/9/15

NOA No. 15-0528.23
Expiration Date: December 23, 2020
Approval Date: July 16, 2015
Page 1

PGT Industries

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 09-1210.08)
2. Drawing No. **08-00882**, titled "2LT HR2710M PVC Horizontal Roller Window - LMI - 74¹/₄" x 63¹/₄", sheets 1 through 6 of 6, dated 10/27/09, with revision **D** dated 05/20/15, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94along with marked-up drawings and installation diagram of 2LT HR-2710 PVC horizontal roller window, XX configuration, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3635-1**, dated 04/14/09, re-issued on 09/17/09 and revised on 05/05/10, signed and sealed by Gerard J. Ferrara, P.E.
(Submitted under NOA No. 09-1210.08)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, dated 06/30/15, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** for their "**Kuraray Butacite® PVB Glass Interlayer**" dated 04/25/15, expiring on 12/11/16.
2. Notice of Acceptance No. **12-0420.01**, issued to **L.B. Plastics, Inc.** for their "**Florida Bronze Color Laminated White Rigid PVC Exterior Extrusions**" dated 12/06/12, expiring on 12/30/15.
3. Notice of Acceptance No. **10-1208.02**, issued to **L.B. Plastics, Inc.** for their "**White Rigid PVC Exterior Extrusions**" dated 12/30/10, expiring on 12/30/15.



Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0528.23

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E. MATERIAL CERTIFICATIONS (CONTINUED)


4. **TREMCO** Part No. **TR-14271E** EPDM exterior glazing gasket complying with the following:
 - a) ASTM C864 Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers with Option II exceptions.
 - b) ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension of 1600 PSI.
 - c) ASTM D395B Test Methods for Rubber Property-Compression Set for 22 HRS 158°F.
 - d) ASTM D 624 Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers of 143 lb/in.

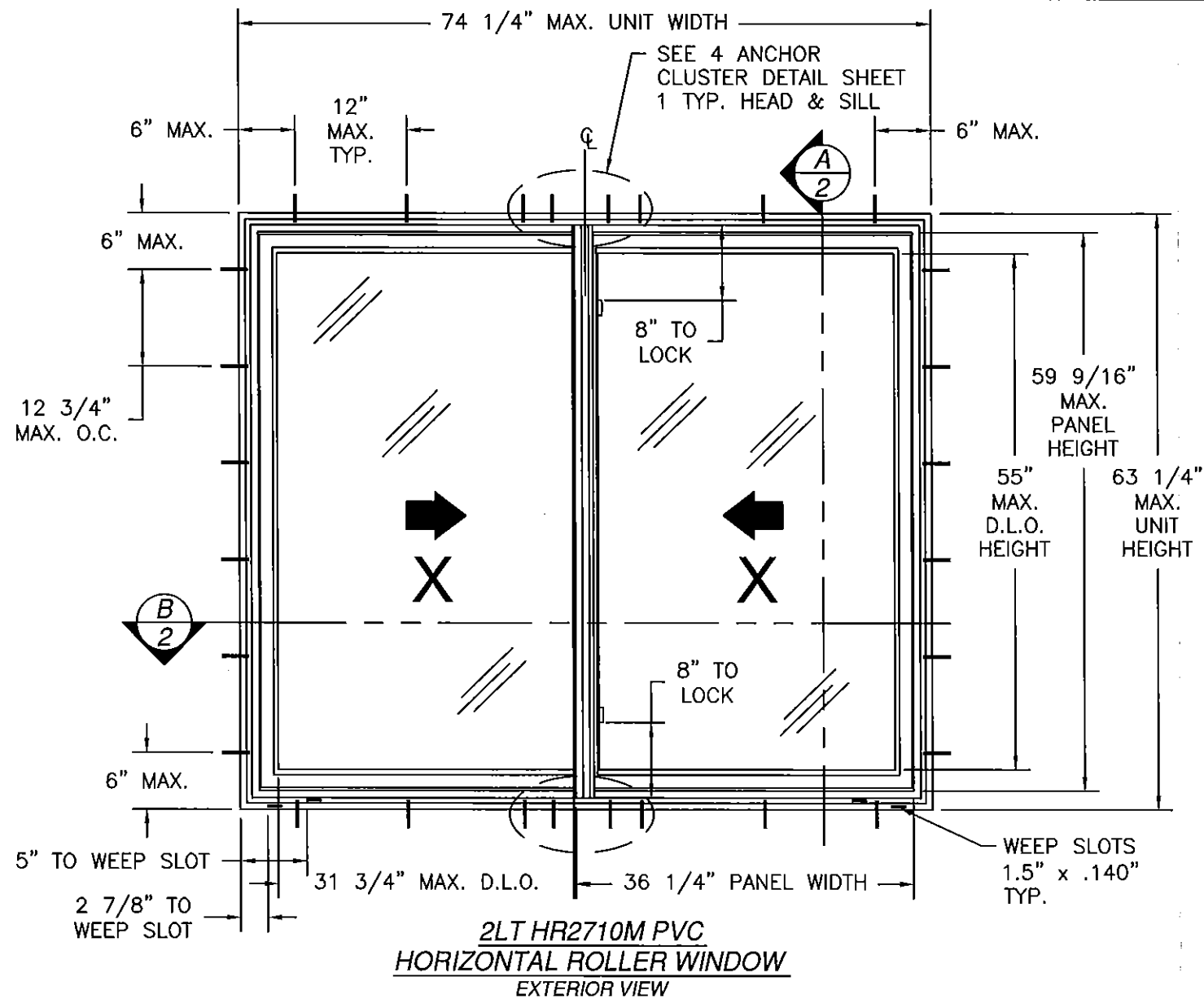
F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 5th Edition (2014)**, dated 05/22/15, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of no financial interest and of independence, dated 05/22/15, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
3. Letter of *Adoption of as his Own, the Work of another Engineer* per Section 61G15-27.001 of the F.B.P.E., dated 10/07/11 signed and sealed by Anthony Lynn Miller, P.E.
(Submitted under previous NOA No. 11-1114.10)
4. Laboratory compliance letter for Test Report No. **NCTL-210-3635-1**, issued by National Certified Testing Laboratories, Inc., dated 04/14/09, re-issued on 09/17/09 and revised on 05/05/10, signed and sealed by Gerard J. Ferrara, P.E.
(Submitted under NOA No. 09-1210.08)

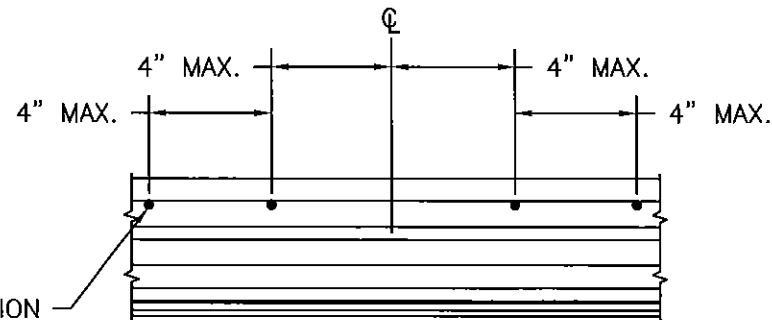
G. OTHERS

1. Notice of Acceptance No. **11-1114.10**, issued to PGT Industries for their Series "2LT HR-2710M White PVC Horizontal Roller Window - L.M.I." approved on 02/09/12 and expiring on 12/23/15.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0528.23
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2LT HR2710M PVC
HORIZONTAL ROLLER WINDOW
EXTERIOR VIEW



4 ANCHOR CLUSTER DETAIL
TYPICAL HEAD AND SILL

WITH 1 1/2\" SILL RISER ITEM #34

DESIGN PRESSURE RATING	IMPACT RATING
+ 60.0 PSF - 65.0 PSF	LARGE AND SMALL MISSILE IMPACT

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	ELEVATION, ANCHORING AND NOTES
2	BILL OF MATERIALS AND CROSS SECTIONS
3 - 5	INSTALLATION DETAILS
6	COMPONENTS AND GLAZING DETAILS

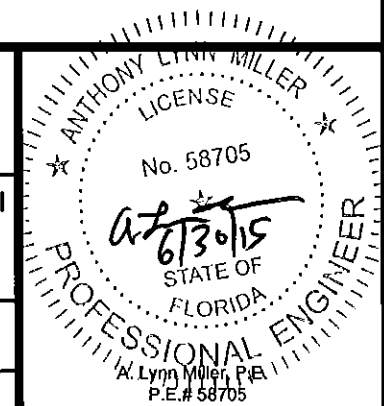
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	UPDATED TO FBC 5TH ED.	05/20/15	JR

NOTES:

- 1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
- 2) WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 3) UNITS MUST BE GLAZED PER ASTM E1300 SEE SHEET 6 FOR APPROVED GLASS TYPES.
- 4) APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND-BORNE DEBRIS REGIONS.
- 5) SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16\" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4\".
- 6) ALL WOOD BUCKS LESS THAN 1-1/2\" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2\" THICK OR GREATER. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS. WOOD BUCKS ARE OPTIONAL, UNIT MAY BE INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER, (EOR) OR ARCHITECT OF RECORD, (AOR)
- 7) FOR INSTALLATION INTO WOOD FRAMING OR 2X BUCKS, USE #8 WOOD SCREW MIN. GRADE 5 WITH SUFFICIENT LENGTH TO ACHIEVE A 1-3/16\" MIN. EMBEDMENT INTO SUBSTRATE WITH 13/16\" MIN. EDGE DISTANCE.
- 8) FOR INSTALLATION THROUGH 1X WOOD BUCKS INTO CMU/MASONRY, USE 3/16\" ITW TAPCON ANCHOR WITH SUFFICIENT LENGTH TO ACHIEVE A 1-1/4\" MIN. EMBEDMENT INTO SUBSTRATE WITH 2-5/8\" MIN. EDGE DISTANCE.
- 9) FOR ANCHORING INTO METAL FRAMING USE #8 TEK MIN. GRADE 5 SELF TAPPING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF THREE THREADS PAST THE FRAME THICKNESS. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- 10) ALL FASTENERS TO BE CORROSION RESISTANT.
- 11) INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
 - A. WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.42
 - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,200 PSI.
 - C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, NORMAL WEIGHT CMU MIN. 2000PSI STRENGTH.
 - D. METAL FRAMING - 16GA (.060) MINIMUM THICKNESS
- 12) ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- 13) FRAME MATERIAL: EXTRUDED RIGID PVC .075\" THICK.
SASH MATERIAL: EXTRUDED RIGID PVC .070\" THICK.
- 14) REFERENCE L.B. PLASTICS, INC NOA'S FOR FLORIDA-BRONZE COLOR LAMINATED BY GRAFCO & WHITE RIGID PVC

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0528.23
Expiration Date 12/23/2020
By *Manuel Lopez*
Miami Trade Prod.

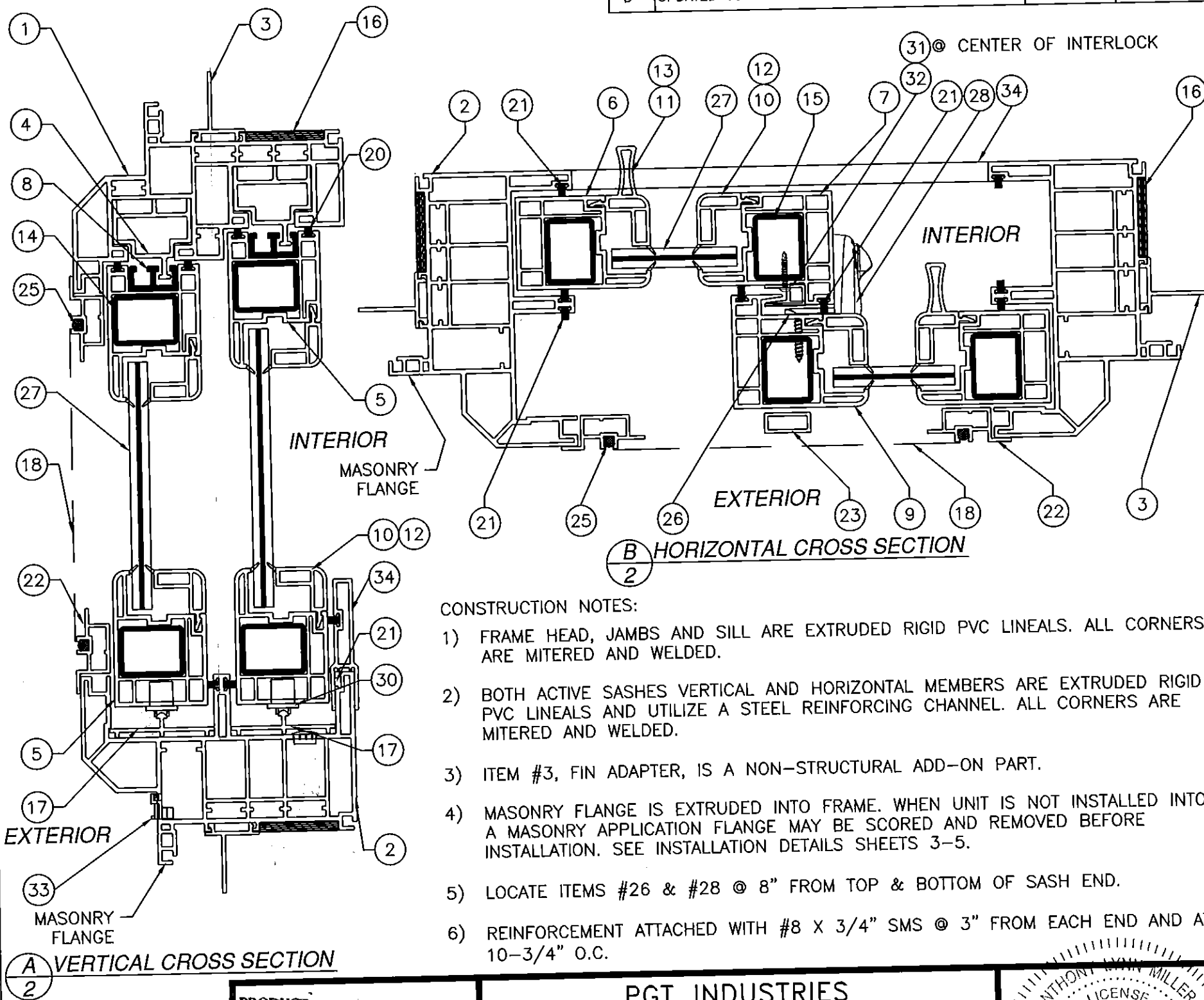
PGT INDUSTRIES 1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275		
2LT HR2710M PVC HORIZONTAL ROLLER WINDOW LMI 74 1/4\" x 63 1/4\" ELEVATION, ANCHORING AND NOTES		
DRAWN: TJH	DWG NO. 08-00882	REV D
SCALE NTS	DATE 10/27/09	SHEET 1 OF 6



INSTALLATION
ANCHORS
SEE NOTES 7,
8 AND 9
SHEET 1

PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	8301	FRAME HEAD	LB PLASTICS INC.	RIGID PVC
2	8303	FRAME SILL AND JAMB	LB PLASTICS INC.	RIGID PVC
3	8343	FIN ADAPTER	LB PLASTICS INC.	RIGID PVC
4	VB51F34F-4	HEADER POCKET INSERT	EASTERN METALS	ALUMINUM 6063-T6
5	8306	SASH HORIZONTAL PLAIN	LB PLASTICS INC.	RIGID PVC
6	8305	SASH VERTICAL PLAIN	LB PLASTICS INC.	RIGID PVC
7	8308	SASH INTERNAL INTERLOCK	LB PLASTICS INC.	RIGID PVC
8	VB51F34F-5	SASH POCKET INSERT	EASTERN METALS	ALUMINUM 6063-T6
9	8307	SASH EXTERNAL INTERLOCK	LB PLASTICS INC.	RIGID PVC
10	8321	SASH 5/16" PLAIN BEAD	LB PLASTICS INC.	RIGID PVC
11	8320	SASH 5/16" LIFT BEAD	LB PLASTICS INC.	RIGID PVC
12	8325	SASH 7/8" PLAIN BEAD	LB PLASTICS INC.	RIGID PVC
13	8324	SASH 7/8" LIFT BEAD	LB PLASTICS INC.	RIGID PVC
14	ST1007B 16GA	SASH REINFORCEMENT	HYGRADE	GALVANIZED STEEL
15	ST1007B 14GA	SASH REINFORCEMENT	HYGRADE	GALVANIZED STEEL
16	2NB-8K-018	RIGID FILLER .797"	FRANK LOWE	NEOPRENE
17	FL 1221	ROLLER TRACK	EASTERN METALS	ALUMINUM 6063-T6
18	18/16GCCCL	SCREEN CLOTH	PHIFER WIRE	FIBERGLASS
19	WA2L	WEEP COVER	PREFERRED ENG.	NYLON
20	G23251NW	WEATHERSTRIPPING FIN SEAL	ULTRA FAB	POLYPROPYLENE
21	G23321NW	WEATHERSTRIPPING FIN SEAL	ULTRA FAB	POLYPROPYLENE
22	VB51F34F-3	SCREEN FRAME	EASTERN METALS	ALUMINUM 6063-T6
23	VB591FB5-3	SCREEN CROSS BAR	EASTERN METALS	ALUMINUM 6063-T6
24	SIKAFLEX 552	GLAZING COMPOUND	SIKA	POLYURETHANE
25	FP-50-160B	SCREEN SPLINE	PROTOTYPE PLASTICS	65A TPE
26	SK01-3014-G2	SASH KEEPER	INTERLOCK USA	ZINC
27		IMPACT GLAZING SEE SHEET 6		
28	5500-000-G2	SASH LOCK	INTERLOCK USA	ZINC
29	NCRWDH-042	TILT LATCH	IPS	ZINC
30	PD42366-1-125	ROLLER	IPS	STAINLESS STEEL
31	SNB IN	INTERLOCK CLIP	WIRCO	STAINLESS STEEL
32	SNB OUT	INTERLOCK CLIP	WIRCO	STAINLESS STEEL
33		WEEP COVER		RIGID PVC
34	8349	1 1/2" SILL RISER	L.B. PLASTICS	RIGID PVC
50	62869/70	SUPERSPACER (5/16" & 7/16")	QUANEX	FOAM EPDM W/DES.
51	71752K	SET. BLOCK, 1/8" X 7/16" X 4"	DURO = 85 +/-5	NEOPRENE
52	71751K	SET. BLOCK, 1/8" X 1-1/16" X 4"	DURO = 85 +/-5	NEOPRENE

FLORIDA-BRONZE COLOR LAMINATED BY GRAFCO & WHITE RIGID PVC EXTRUSIONS BY L.B. PLASTICS, INC. ARE TO BE LABELED WITH AAMA EXTRUDER CODE, EXTRUDER NAME, CITY, STATE AND MDCA REQUIREMENTS

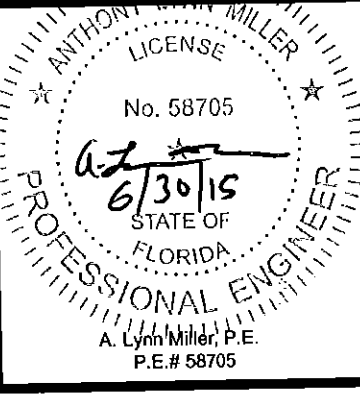


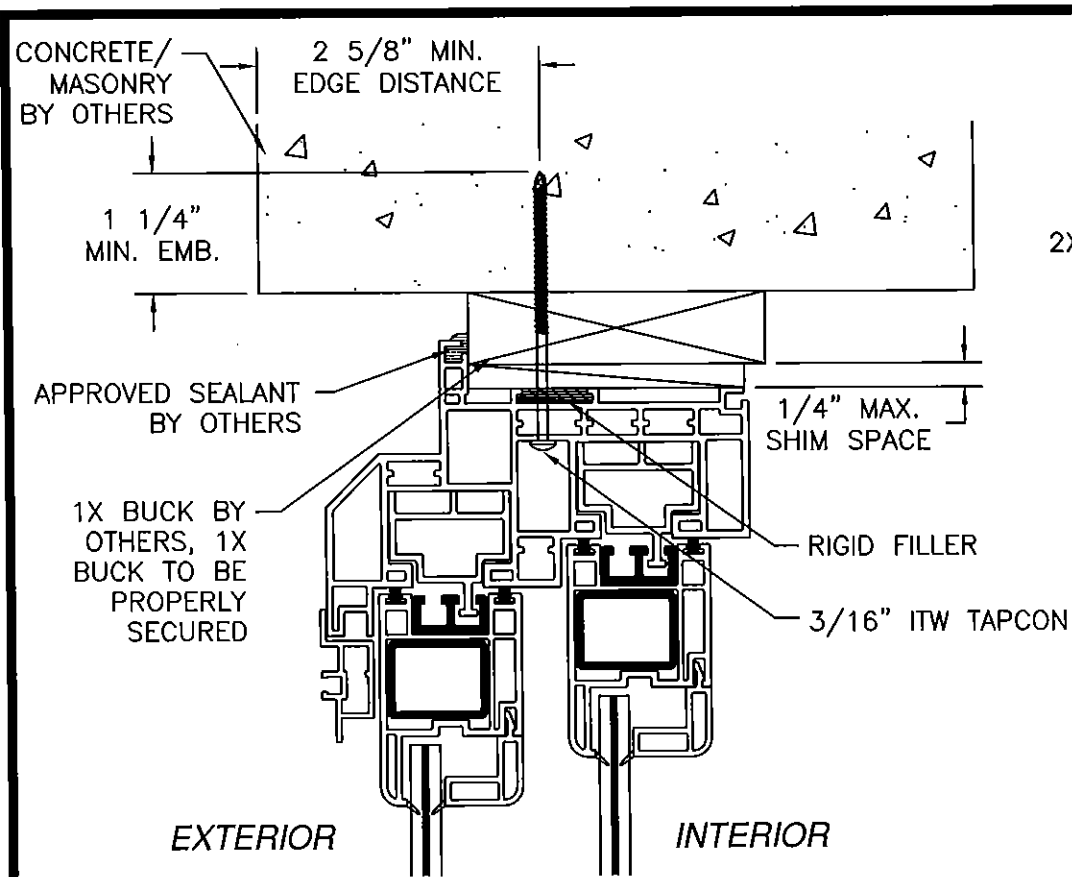
CONSTRUCTION NOTES:

- 1) FRAME HEAD, JAMBS AND SILL ARE EXTRUDED RIGID PVC LINEALS. ALL CORNERS ARE MITERED AND WELDED.
- 2) BOTH ACTIVE SASHES VERTICAL AND HORIZONTAL MEMBERS ARE EXTRUDED RIGID PVC LINEALS AND UTILIZE A STEEL REINFORCING CHANNEL. ALL CORNERS ARE MITERED AND WELDED.
- 3) ITEM #3, FIN ADAPTER, IS A NON-STRUCTURAL ADD-ON PART.
- 4) MASONRY FLANGE IS EXTRUDED INTO FRAME. WHEN UNIT IS NOT INSTALLED INTO A MASONRY APPLICATION FLANGE MAY BE SCORED AND REMOVED BEFORE INSTALLATION. SEE INSTALLATION DETAILS SHEETS 3-5.
- 5) LOCATE ITEMS #26 & #28 @ 8" FROM TOP & BOTTOM OF SASH END.
- 6) REINFORCEMENT ATTACHED WITH #8 X 3/4" SMS @ 3" FROM EACH END AND AT 10-3/4" O.C.

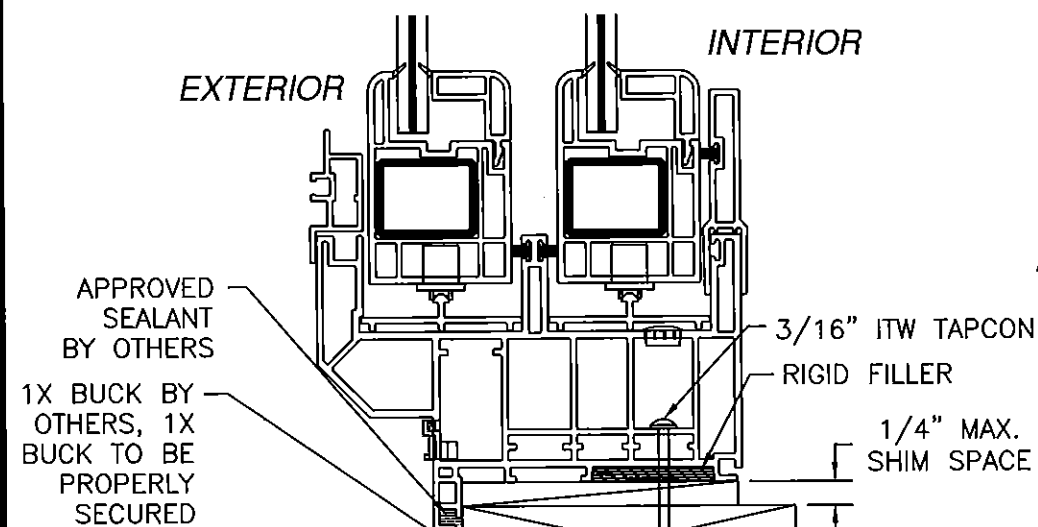
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 By *Manuel Lopez*
 Miami Dade Product Control

PGT INDUSTRIES 1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275		
2LT HR2710M PVC HORIZONTAL ROLLER WINDOW LMI 74 1/4" x 63 1/4" BILL OF MATERIALS AND CROSS SECTIONS		
DRAWN: TJH	DWG NO. 08-00882	REV C
SCALE NTS	DATE 10/27/09	SHEET 2 OF 6

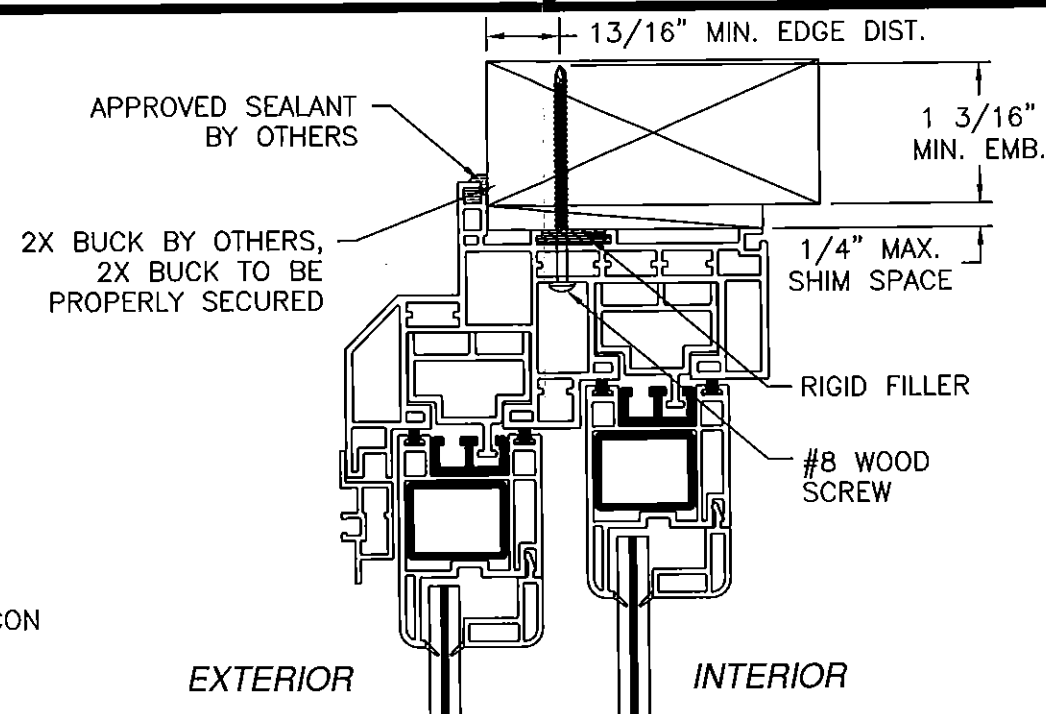




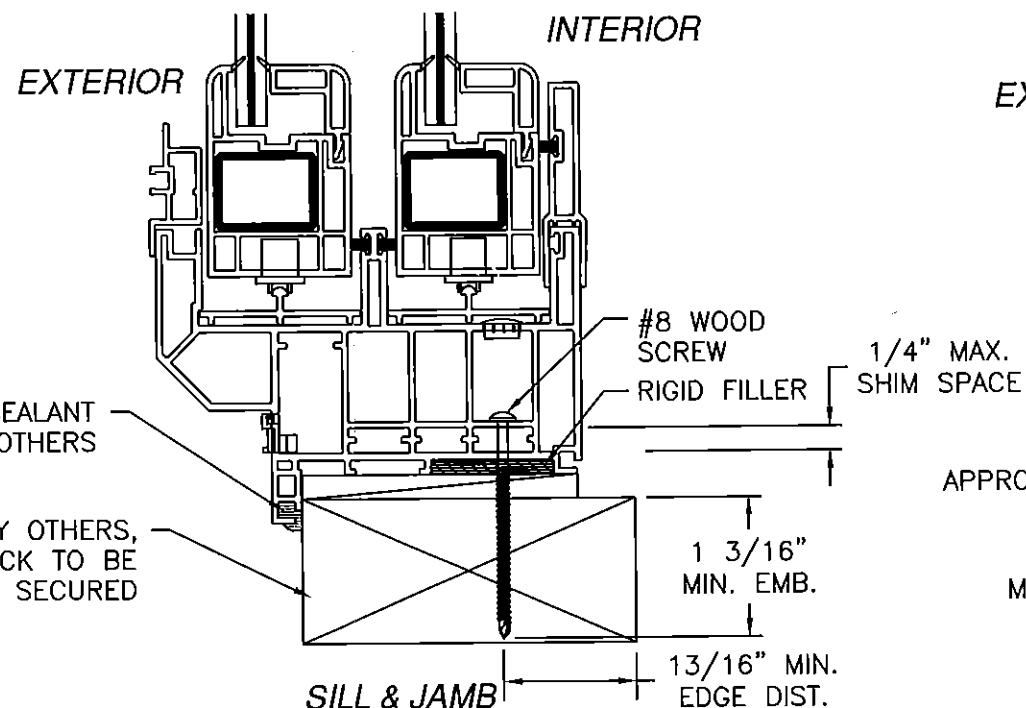
HEAD
CONCRETE/MASONRY FLANGE INSTALLATION



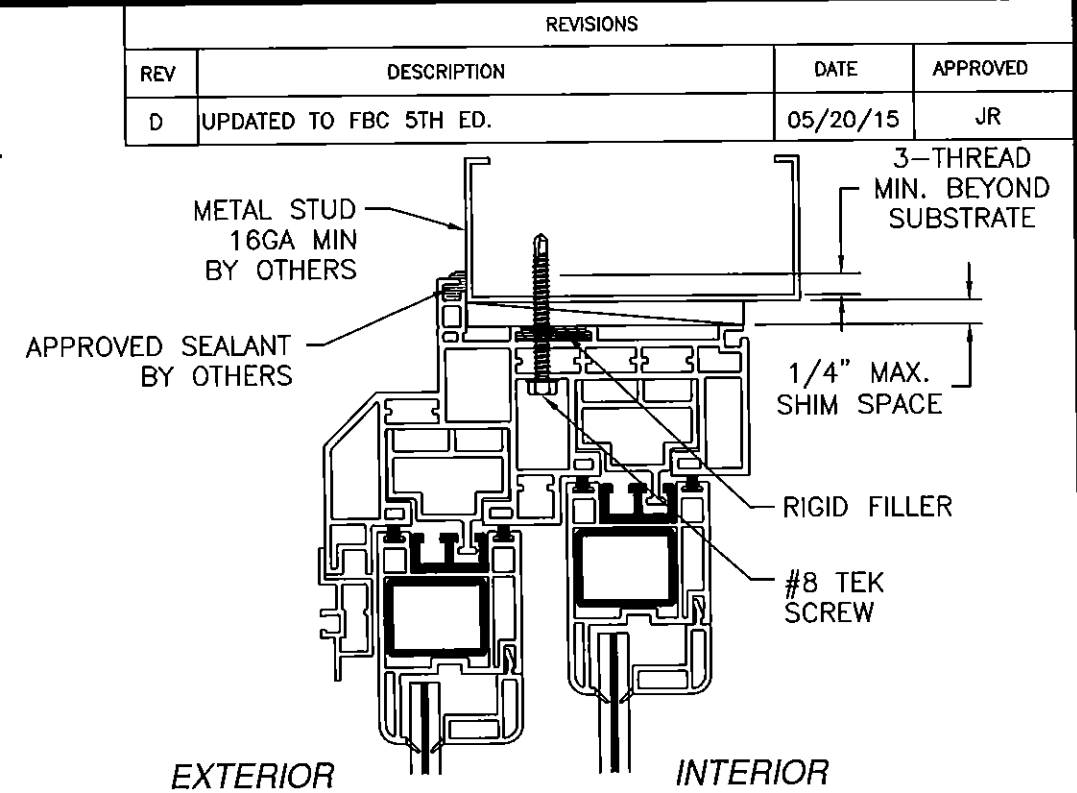
SILL & JAMB
CONCRETE/MASONRY FLANGE INSTALLATION
SILL SHOWN, JAMBS SIMILAR



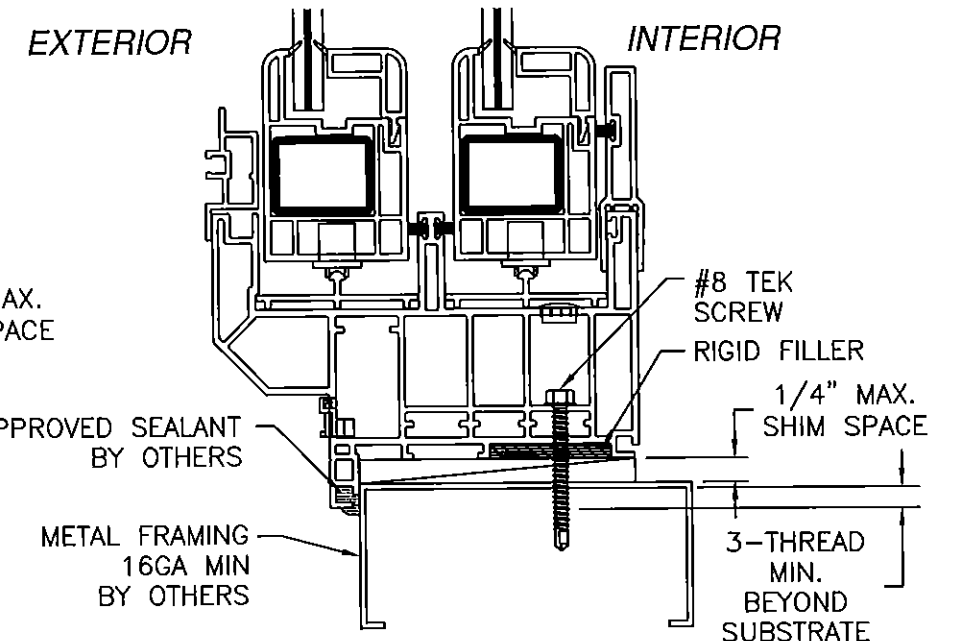
HEAD
WOOD FRAMING OR 2X BUCK FLANGE INSTALLATION



SILL & JAMB
WOOD FRAMING OR 2X BUCK FLANGE INSTALLATION
SILL SHOWN, JAMBS SIMILAR



HEAD
METAL FRAMING FLANGE INSTALLATION



SILL & JAMB
METAL FRAMING FLANGE INSTALLATION
SILL SHOWN, JAMBS SIMILAR

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REV	DESCRIPTION	DATE	APPROVED
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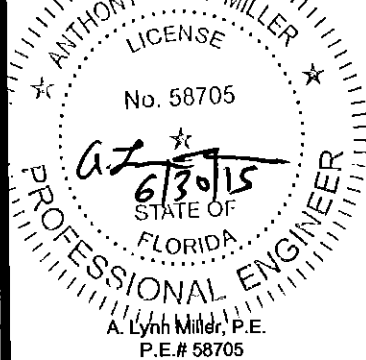
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NOKOMIS, FL 34275

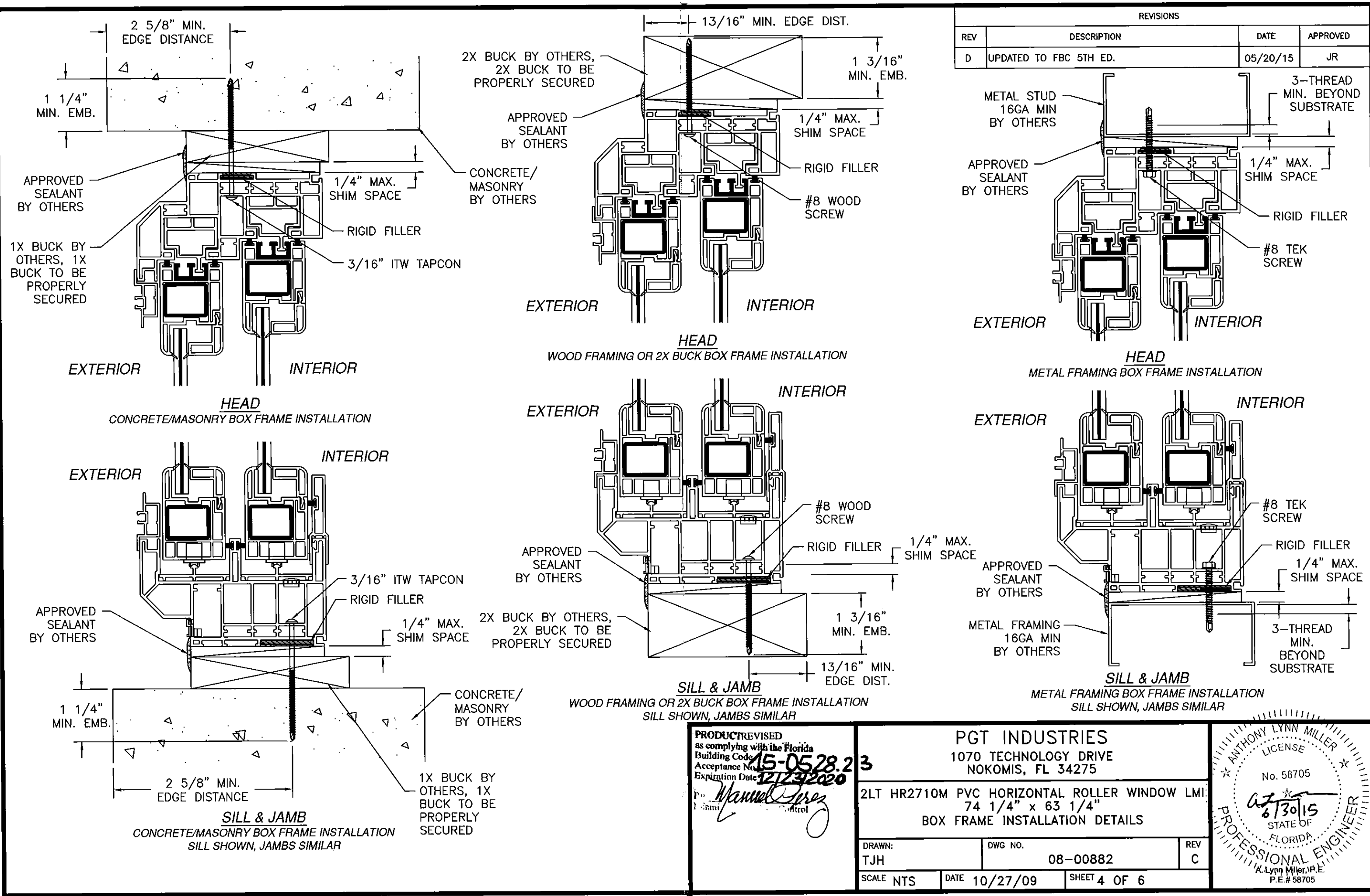
2LT HR2710M PVC HORIZONTAL ROLLER WINDOW LMI
74 1/4" x 63 1/4"
FLANGE INSTALLATION DETAILS

DRAWN: TJH
SCALE NTS

DWG NO. 08-00882
DATE 10/27/09

REV C
SHEET 3 OF 6

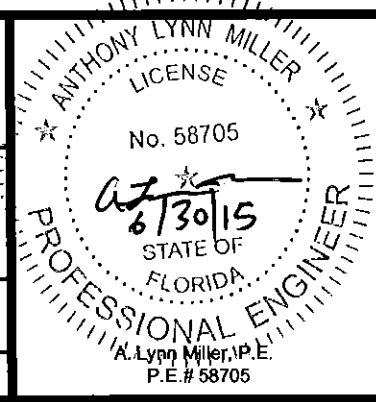


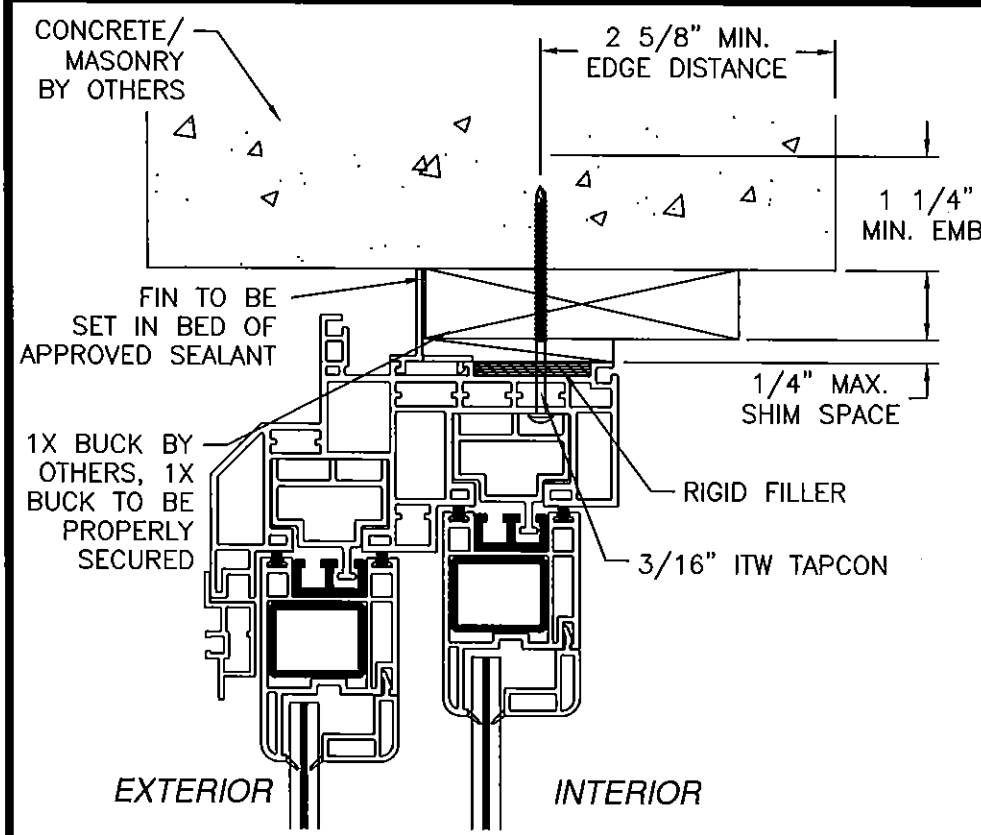


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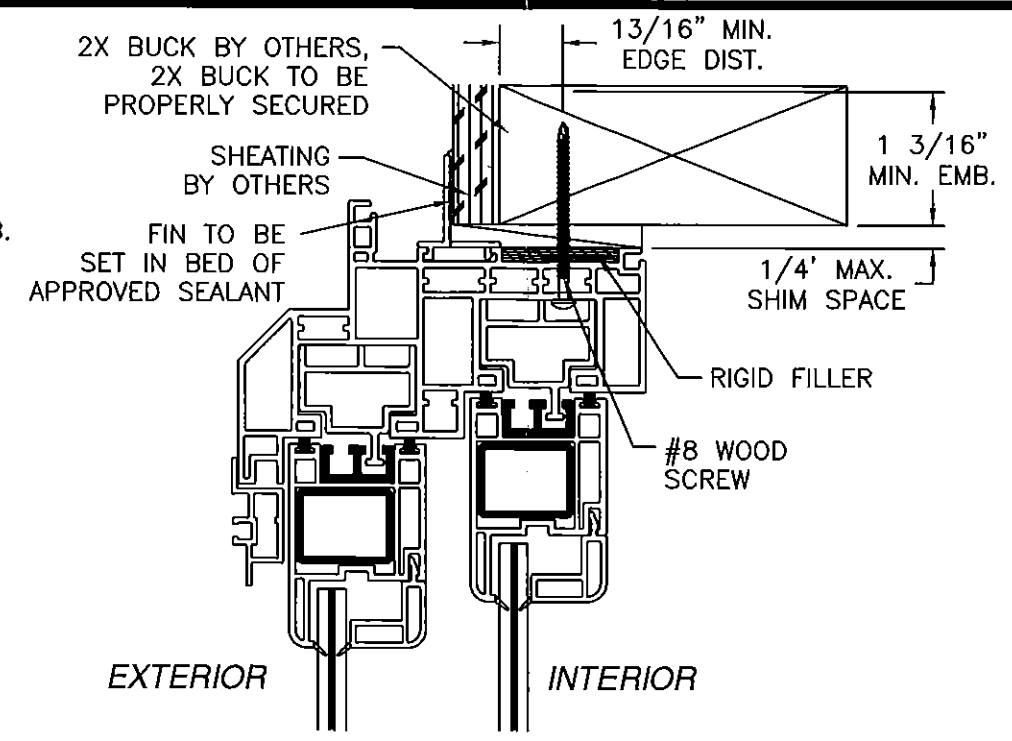
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2LT HR2710M PVC HORIZONTAL ROLLER WINDOW LMI: 74 1/4" x 63 1/4" BOX FRAME INSTALLATION DETAILS		
DRAWN: TJH	DWG NO. 08-00882	REV C
SCALE NTS	DATE 10/27/09	SHEET 4 OF 6

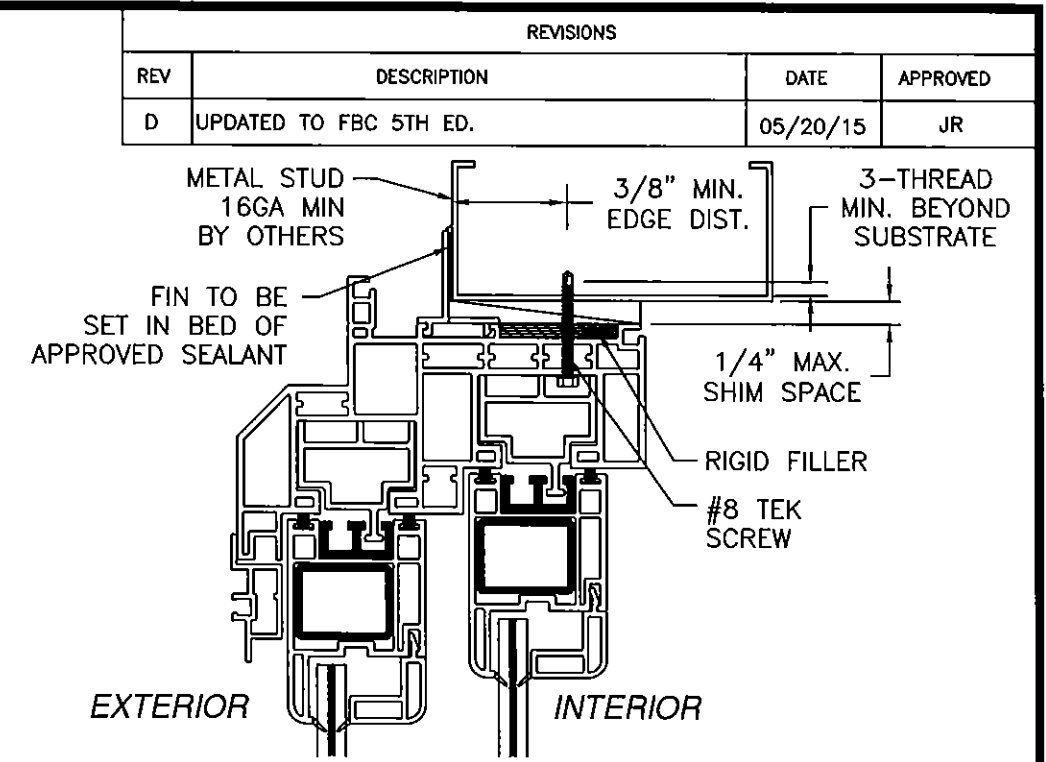




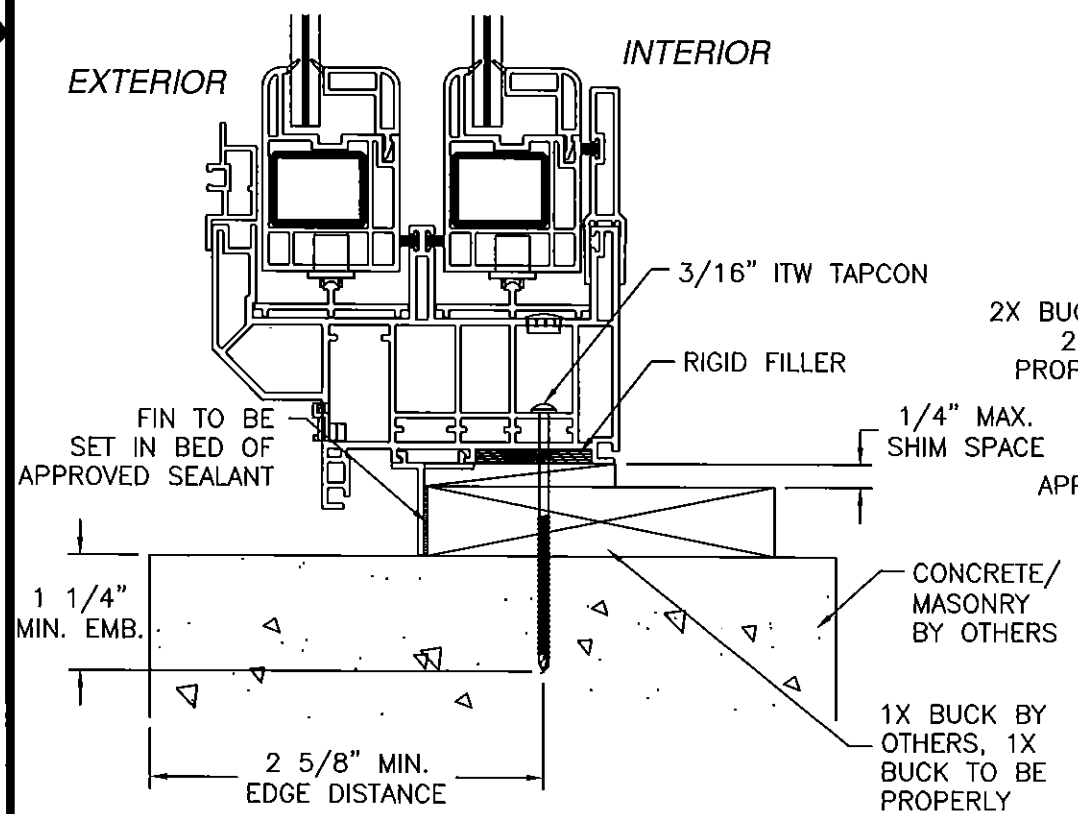
HEAD
CONCRETE/MASONRY FIN INSTALLATION



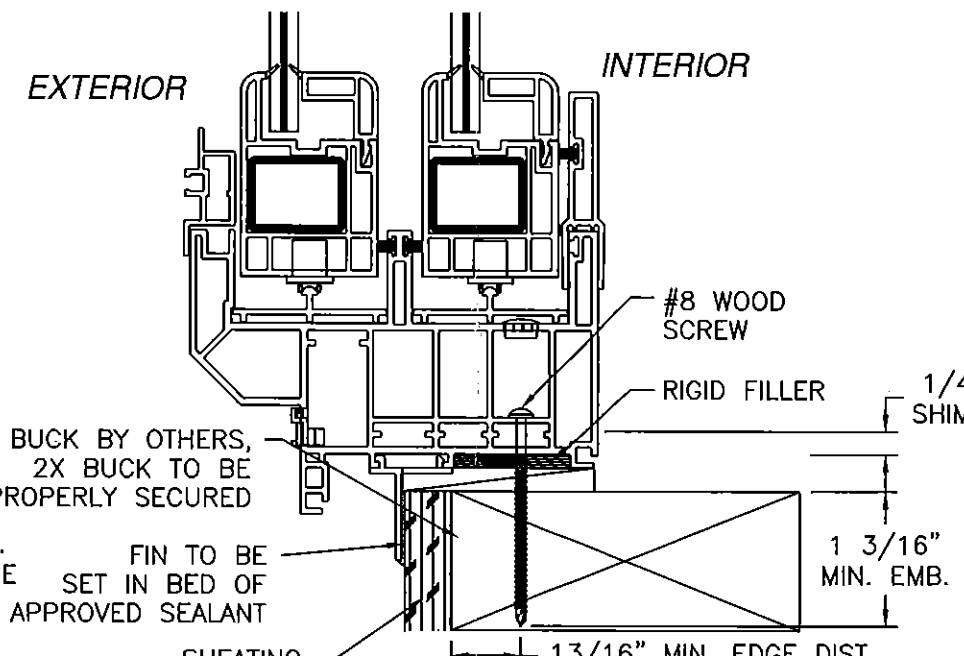
HEAD
WOOD FRAMING OR 2X BUCK FIN INSTALLATION



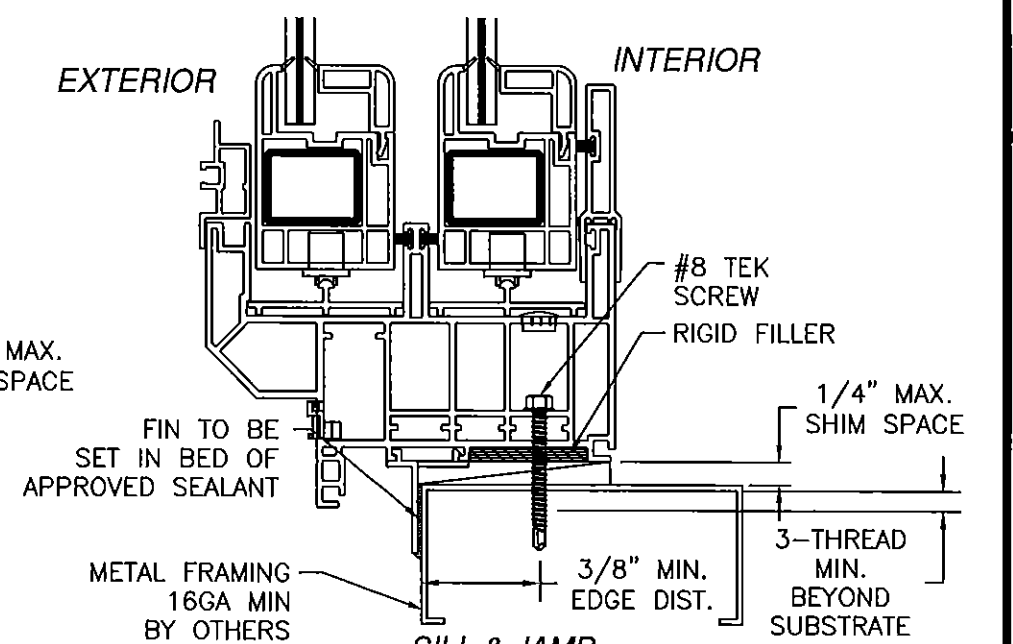
HEAD
METAL FRAMING FIN INSTALLATION



SILL & JAMB
CONCRETE/MASONRY FIN INSTALLATION
SILL SHOWN, JAMBS SIMILAR



SILL & JAMB
WOOD FRAMING OR 2X BUCK FIN INSTALLATION
SILL SHOWN, JAMBS SIMILAR



SILL & JAMB
METAL FRAMING FIN INSTALLATION
SILL SHOWN, JAMBS SIMILAR

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PGT INDUSTRIES
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

2LT HR2710M PVC HORIZONTAL ROLLER WINDOW LMI
74 1/4" x 63 1/4"
FIN INSTALLATION DETAILS

DRAWN: TJH	DWG NO. 08-00882	REV C
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